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The Quarterdeck (newsletter)

1986-03-14

The Quarterdeck / 1986-03-14

Naval Postgraduate School, Monterey Callifornia

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the

Quarterdeck

*a weekly publication serving
the Naval Postgraduate School*

Volume 3 Issue 10

March 14, 1986

**New treat:
Sports Beat
(page 3)**



Flight deck crews may find new shipmate...a robot

Can a robot become a member of the flight deck crew on the USS Constellation?

Mechanical engineering Prof. Dave Smith thinks the idea has a lot of promise -- especially if the robot can extinguish aircraft fires.

So, with grant support from the Naval Surface Weapons Center, Smith and several mechanical engineering students have begun to build a prototype robot firefighter for deployment on aircraft carriers.

They've started by tackling some fundamental problems, "technically, we need to find out what we don't know," Smith said.

Design Requirements

The basic design requirements are for the robot to approach a burning aircraft, drill a hole in the aircraft exterior skin, and pump firefighting agents into the aircraft interior, he said.

Initial work is focusing on several questions, Smith said. How do we position the drill and control it at high speeds? How strong do we need to make the arm to handle the pressures and forces caused by the system's movements? Once the arm is locked into a drilling position, how strong

must it be to puncture the plane's fuselage?

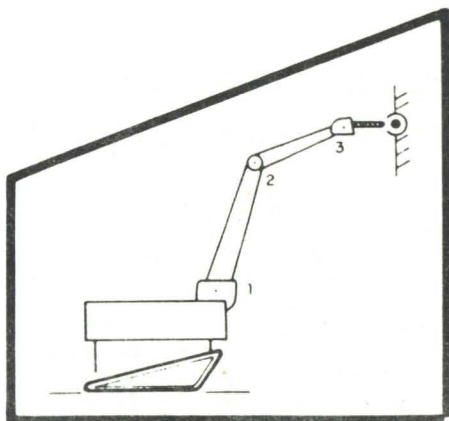
Smith has been approaching these issues by starting from the drilling end of the robot and working his way to the deck.

Thesis Research

LCDR Dave Lewis, Smith's first thesis student on the project and a December graduate, developed a model of the arm and a data acquisition system for the research project.

Now LCDR Rachel Yobs is completing initial measurements of the load forces on the arm during drilling.

The work will continue in sequential steps, Smith said, with a full prototype firefighter ready within two years. --John Sanders



The firefighting robot will be about six feet tall when the arm is extended upward (as shown above). Moving at about 5-10 mph, it will take the robot about 30-35 seconds to position a drill, create a hole in a plane's fuselage and inject halon into the burning aircraft.

In brief...

If you plan to participate in the superintendent's beach clean up tomorrow, and you haven't yet notified LT Guy Williams, be sure and contact him today at ext. 2513.

MGEN William H. Harrison, commanding general, Seventh Infantry Division (Light), will be the guest speaker at graduation exercises to be held Thursday, Mar. 27, at 1430 in King Hall.

Dr. Richard Elster will return to NPS next week. Elster, deputy assistant secretary of the Navy for manpower since August 1984, has been appointed director of the Defense Personnel Security Center, a newly created tenant command. Elster had been chairman of administrative sciences at NPS prior to his move to Washington, D. C.

LCDR Rodney M. Locke, detailer for submarine officer department heads, will visit NPS Mar. 19.

Appointments may be scheduled with the detailer by signing up outside the weapons engineering curricular office. Appointments will be held 0830-1600 in Spanagel Hall, Room 300.

Following scheduled appointments, LCDR Locke will conduct a general briefing in Spanagel Hall, Room 101A, at 1600.

(continued page four)

From the Chaplain

by LCDR R. G. Rowland, CHC, USN

The life that has no goal wanders aimlessly. And the danger of wandering is that it can lead to lostness. On the other hand, the life that has a goal journeys toward a destination -- a destination life has surveyed before traveling, so it knows where it is going.

Goal setting should be a vital part of life. When worthy goals challenge life the best ingredients are prompting life and the worst are shoved aside. The life that has a goal has a cause and a cause is the best medicine for boredom.

The life that is content with whatever comes has aimed too low. And probably what he gets will be useless and temporal. They are not the things that will be around when life adds up its journey.

Life never goes very far nor ascends very high without a goal. For, without a goal, life settles for little and thinks it's a lot. It is content with nothing and is deceived into thinking it has much. It miscalculates the routine of existence for creative, meaningful living.

Take a little time to set your life's goals. When you do you will have begun on that climb which is so rewarding as you move toward God.

Campus notes

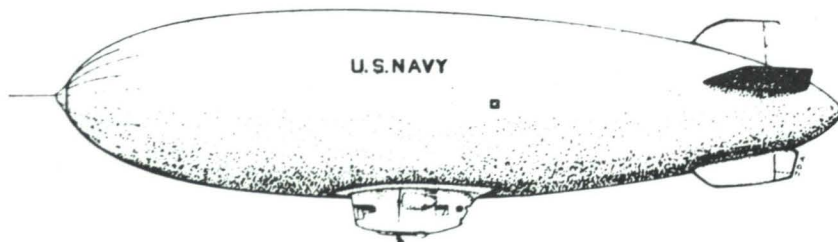
by John Sanders

During the first four months of FY86, the **research administration office** recorded 88 new grants. The value of the sponsored research was nearly \$6 million. Grants totalled \$13.8 million during FY85, said Dr. Gil Howard, director of research administration.

Aeronautics Prof. "Red" Layton offered a unique perspective on the history of airships last week. Layton, a flight officer on the first airship to land on and ascend from an aircraft carrier, noted that a joint Navy/NASA conference held at NPS in 1974 regenerated scientific and operational interests in airships. Now the Navy has a request for proposals (RFP) out for a new airship to be used for battle surveillance.

National security affairs will be the host next week for a briefing on U. S. maritime strategy by CAPT Tom Daly, head of the strategic concept group in OP-06. A limited number of reprints of the recent magazine publication, "The Maritime Strategy," with articles by the CNO and SECNAV, are available in the public affairs office.

Slightly off-campus: NPS alumnus CDR Michael Smith, pilot of the space shuttle Challenger, has been nominated for posthumous appointment to captain by President Reagan.



Recycling saves government money

NPS saved the government \$8,872 in FY85 by recycling paper.

Rather than throwing away those tabulating cards or computer paper, a call to John Bolster, warehouse supervisor, could help save dollars. Except for carbon paper or cardboard, any excess paper can be boxed and sent to receiving and shipping for further handling.

Linda McDermitt, secretary to the provost and an avid proponent of recycling, said she gathers printing paper, copy machine paper and old envelopes along with "just about everything."

After reading an article from one of supply's old newspapers about recycling, she "placed some boxes in the hall and started asking other folks around here to put their paper in the boxes instead of throwing it away."

If you have tabulating cards, computer paper, shredded computer paper, or some other recyclable, such as old phone books or brochures, pull out NAV-PGSCOL Instruction 4500.1.

This instruction supplies all guidelines for the packaging and disposal procedures to be followed for recyclable paper.

Property disposal procedures changed

Changes in procedures for property disposal may require more time for processing excess property turn-in requests.

According to SKC Elinor Caganap, issue control supervisor, excess property will no longer automatically be turned over to Fort Ord for disposal. Rather, some will be turned into Naval Supply Center, Oakland.

"This will require more time for processing," said Caganap. "Procedures are now under review. New instructions will be promulgated when completed."

For more information, call Chief Caganap at ext. 2181 or 2183.

Sports Beat

JOI Frank Summers

I'm not sure what happened to the spring weather, but for some reason when an umpire yells "play ball" in March, the rains just seem to follow.

That was the case for the NPS 9th Annual Women's Fast-pitch Softball Tournament, scheduled to begin last weekend. Under cloudy skies, the College of Notre Dame opened up the tournament with a 14-4 ripping of Skyline College.

In the second game, neither the Fort Hunter Leggetts nor the Navy (NPS) Dodgers made the scoreboard shine with runs before the rains washed away any chance to complete either the game or the tournament.

As I write this column, another storm off the coast is waiting for some umpire to yell "play ball." Should the storm allow shining days for this weekend, the tournament will resume tonight with a doubleheader--the Navy Dodgers will again face the Fort Hunter Leggetts, followed by MPC meeting IMI.

Games, which continue Saturday, will be played at Sparks Field. According to Frank Samuel, NPS recreation manager, plans are to complete the tournament Saturday.

On another sports note, congratulations are in order for the T.O.G. basketball team. They dunked the 360's ADT, 63-46, to capture the "A" league basketball championship. T.O.G. went undefeated for 13 games.

The Monterey Military Rugby Club rebounded back to their winning ways as they pounded Hastings 15-10 last weekend.

The win gave the Monterey team a 6-6 record. On Mar. 29 the Monterey Club will try to improve their record as they take on the San Jose Seahawks in San Jose.

Scholarships to be offered

The Federal Personnel Council and the San Francisco Bay Area Federal Executive Board are offering 10 awards of \$1000 each to eligible high school seniors graduating January through June 1986.

The deadline for scholarship application is Apr. 25. For eligibility requirements, application forms and further information, contact Dawn Morris, civilian personnel office, ext. 2003.

Teen news

The La Mesa Teen Center has just received a face lift: the facilities have been repainted and a variety of new games have arrived.

The center will be open 1200-1800 during the spring vacation. Upcoming events include: St. Patrick's Day dance, Mar. 14; scavenger hunt, Mar. 15; all-day movie marathon, Mar. 26.

For more information about teen center activities contact Heidi Johnston at ext. 2127.



Rec news

The next basic sailing course will be held Apr. 10 through May 29. The course will include six classroom and six underway sessions. Registration is \$50 and there is a mandatory \$5 fee for a sailing association membership. For more information call the rec office at ext. 2466.



The rec office has tickets for Shriner Circus Days at Great America, Saturday and Sunday, Apr. 26-27.

Cost for a book of four coupons is \$29.

EM club

The EM Club is sponsoring a St. Patrick's Day party on tonight with live music provided by "The Project." The band will play 2000-2400.

A chili cookoff, sponsored by the welfare and rec committee, will be held Mar. 22 at the EM Club, 1400-1800.

Admission is \$2 for all the chili and chili dogs you can eat. Live entertainment will also be provided.

Classified ads

Ads may be submitted in person or via regular/guard mail, and must reach the public affairs office no later than noon Monday for publication in that week's issue.

Ads will be run on a first come, first served basis. Please notify the PAO of any ad cancellations by calling ext. 2023. Ads will be run for a maximum of two weeks unless resubmitted.

1980 YAMAHA MOTORCYCLE, 250 cc, electric starter 75 mpg. \$590. Wooden fence & gate 100 pt. In La Mesa housing; \$40. Call 646-9920.

TO SHARE: IMMACULATE 3-BDRM APARTMENT \$377.50. Furnished/ unfurnished, 3 mi. from NPS. Prefer single officer or single E-7 or above. Call Bob at 384-6137.

1978 DATSUN B-210 FASTBACK \$1000 or b/o. Nice stereo. Weekdays ext. 2346/7; 455-2908 nights & weekends.

FOUND: THERMOS BOTTLE contact LT O'Hara, ext. 2044.

DOUBLE BED MATTRESS, BOX SPRING, Hollywood bed frame, \$50. Danish chair, \$10. Call 372-8127.

1979 PLYMOUTH VOLARE low mileage, 4-dr, A/C, showroom cond. \$2,000, negotiable. Call 375-9469.

Discrimination: The formal complaint

by Dorothy S. Lewis, Deputy EEO Officer

(Ed. Note: This is the second installment in a series on procedures for filing complaints of discrimination. The first article appeared in the Feb. 21 issue of "The Quarterdeck.")

A formal complaint of discrimination refers to a written allegation of an illegal employment decision based on prejudicial or preferential treatment. Examples of such discrimination might include the hiring of a male instead of a female or the promotion of only members of a specific race or ethnic group.

Because the complaints process was not developed to try individuals, complaints are lodged against an activity or an agency.

Let's explore the complaints process:

Mr. Slide Rule filed a complaint that he had been considered for employment as a draftsman, GS-7, in May, June and July, but he was not selected. Mr. Rule indicated that he was a black male and was better qualified for the position than was Miss T. P. Writer and the other selectees.

The first decision that the equal employment opportunity officer (EEEO) must make is to accept or reject the complaint. Because this complaint was filed within the required time frame and the school had control over hiring, the complaint was accepted. The EEEO cannot reject a complaint based on the merit of the allegation.

Investigating a complaint

The external process begins with a written request for an EEO investigator, employed by the regional office of Civilian Personnel Management. The EEO investigator visits the school and meets with Mr. Rule and his representative and others who have personal knowledge of what happened.

Because the investigative process is used to develop and record evidence on which an impartial decision can be made, the EEEO requires all employees to cooperate when asked to furnish testimony. Upon completion of the investigation, the investigator writes his report, summarizes his findings and recommends corrective action, if appropriate.

The investigative report is mailed to the EEEO, who forwards one copy to Mr. Rule, and an informal adjustment meeting is scheduled. It is during this meeting that management and Mr. Rule have an opportunity to discuss the case and negotiate or otherwise resolve the complaint.

If an agreement is reached, a written memorandum of resolution becomes a part of the case file. If the activity does not carry out the agreement, Mr. Rule can ask that the case be reinstated.

The appeals process

If Mr. Rule is not satisfied with the recommended action, he can request a decision from the Secretary of the Navy (Employee Appeals Review Board) with or without a hearing. If a hearing is requested, the findings of the hearing and the case file are sent to SECNAV for final decision. If a hearing is not requested, the EEEO forwards the case file for review and final decision.

Alternatively, Mr. Rule could choose to file an appeal with the Equal Employment Opportunity Commission or file a civil action in a U. S. District Court.

In the complaints process, complainants are advised of the status of the complaint and the time limits for responding. In some cases, failure to respond may result in the cancellation of a complaint. Resolution can be reached or complaints may be withdrawn at any time, if requested by the complainant.

Calendar

MARCH

15

0800

SUPT'S BEACH CLEAN UP
(POC: LT WILLIAMS,
EXT 2513)

-18-

1510

BRIEFING

U.S. MARITIME STRATEGY
CAPT TOM DALY, OP-603
IN-122

SECRET/NOFORN

(POC: LCDR PARKER,
EXT 2845)

-20-

1100

SPACE ENVIRONMENT
SEMINAR

DR. JOSEPH B. REAGAN,
LOCKHEED PALO ALTO
SP-231

(POC: PROF FUHS,
EXT 2948)

-24 TO 28-

MARINE CORPS ORIENTATION
COURSE

(POC: LCOL MELCHAR,
EXT. 2401)

-27-

1430

GRADUATION EXERCISES
KING HALL

(POC: ENS FREE,
EXT 2075)

APRIL

-3-

1100

SEMINAR

LAUNCH OF THE SHUTTLE
COL SEVERO,

VANDENBERG AFB

SECRET

SP-231

(POC: PROF FUHS,
EXT 2948)

briefs (from page one)

The Orthodox Church in America will be holding a worship service in the admiral's dining room in Herrmann Hall on Mar. 15 at 1000. The service will be conducted by Reverend Kozak, 1LT, USAFR.

The MacIntosh User's Group will hold its monthly meeting Tuesday, Mar. 18, at 1510 in Spanagel Hall, Room 421.

Topics of discussion will include MacIntosh upgrades and programming languages.

Club members and other interested personnel are encouraged to attend.